# **Chapter 4 - PROJECT EXECUTION AND CONTROL**

## **Purpose**

The purpose of Project Execution and Control is to develop the product or service that the project was commissioned to deliver. Typically, this is the longest phase of the project management lifecycle, where most resources are applied.

Project Execution and Control utilizes all the plans, schedules, procedures and templates that were prepared and anticipated during prior phases. Unanticipated events and situations will inevitably be encountered, and the Project Manager and Project Team will be taxed to capacity to deal with them while minimizing impact on the project's Cost, Scope, Schedule, and Quality (CSSQ).

The conclusion of the phase arrives when the product of the project is fully developed, tested, accepted, implemented and transitioned to the Performing Organization.

Accurate records need to be kept throughout this phase. They serve as input to the final phase, Project Closeout.

#### **List of Processes**

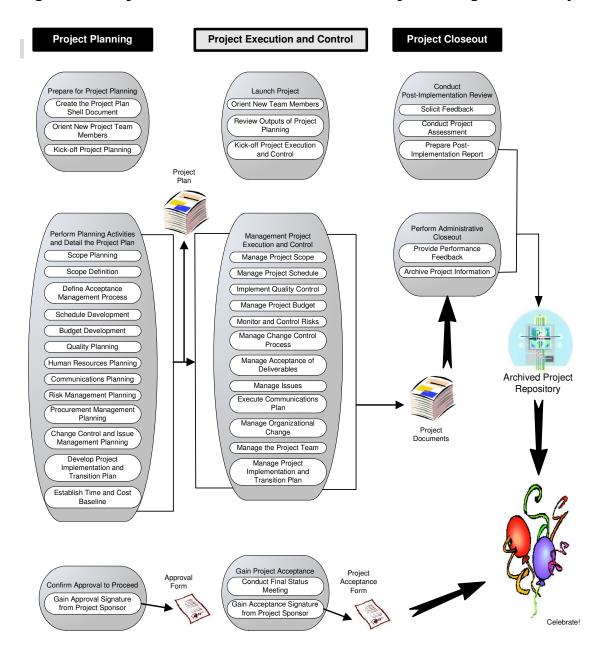
This phase consists of the following processes:

- **4.1 Launch Project**, where the Project Manager conducts a meeting to formally begin the Project Execution and Control phase, orient new Project Team members, and review the documentation and current status of the project.
- 4.2 Manage Project Execution and Control, where the Project Manager must manage every aspect of the Project Plan to ensure that all the work of the project is being performed correctly and on time. This includes managing changes to the Project Scope and Project Schedule, implementing Quality Assurance and Quality Control processes according to the Quality Standards, controlling and managing costs as established in the Project Budget, and utilizing the Risk Management Plan.
- **4.3 Gain Project Acceptance**, where the Project Manager, Customer Decision-Makers and Project Sponsor acknowledge that all deliverables produced during Project Execution and Control have been completed, tested, accepted and approved, and that the

product or service of the project has been successfully transitioned to the Performing Organization.

The following chart illustrates all of the processes, tasks, and deliverables of this phase in the context of the project management lifecycle.

Figure 4-1 Project Execution and Control in the Project Management Lifecycle



#### **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

#### **List of Roles**

The following roles are involved in carrying out the processes of this phase. The detailed descriptions of these roles can be found in the Introduction.

Project Manager
Project Sponsor
Project Team Member
Customer
Customer Representative
Consumer
Stakeholders

#### **List of Deliverables**

Project Execution and Control differs from all other phases in that between phase kick off and project acceptance, all processes and tasks occur concurrently and repeatedly, and continue almost the entire duration of the phase.

Thus, the earlier concept of a "process deliverable" is not applicable to this phase, and even task deliverables are mostly activities, not products.

Of course, there is the ultimate phase deliverable – the product of the project, and it is formally recognized via the signed Project Approval Form.

<u>Figure 4-2</u> lists all Project Execution and Control tasks and their deliverables. A deliverable is a measurable, tangible, verifiable product. The items in italics are *outcomes*, which are more similar to results versus tangible deliverables.

**Figure 4-2 Project Execution and Control Deliverables** 

Processes	Tasks	Task Deliverables (Outcomes)
Launch Project	Orient New Team Members	Team Members Prepared to Work
	Review Outputs of Project	Project Planning Outputs
	Planning	Reviewed
	Kick Off Project Execution and	Kick-off Meeting Agenda
	Control	Kick-off Meeting Notes
Manage Project Execution	Manage Project Scope	Scope Under Control
and Control	Manage Project Schedule	Updated Project Schedule
	Implement Quality Control	Quality Control Processes In Place
	Manage Project Budget	Updated Budget
	Monitor and Control Risks	Updated Risk Log
		Updated Issue Log
		CSSQ Managed
	Manage Change Control	Updated CSSQ
	Process	
	Manage Acceptance of	Project Deliverable Approval
	Deliverables	Forms
	Manage Issues	Project Status Report
	Execute Communications Plan	Project Status Report and
		Other Communication Tools
	Manage Organizational Change	Organizational Change
		Processes Executed
	Manage the Project Team	High Performing Team
	Manage Project Implementation and Transition Plan	Product of the Project
Gain Project Acceptance	Conduct Final Status Meeting	Final Project Status Report
	Gain Acceptance Signature	Signed Project Acceptance
	from Project Sponsor	Form

## 4.1 Launch Project

#### **Purpose**

The purpose of Launching the Project is to formally acknowledge the beginning of Project Execution and Control and facilitate the transition from Project Planning. Similar to Project Planning Kick-off, launching the project ensures that the project is still on track and focused on the original business need. Many new team members will be introduced to the

#### **Roles for this Step**

Project Manager
Project Sponsor
Project Team Members
Stakeholders

project at this point, and must be thoroughly oriented and prepared to begin work. Most importantly, current project status is reviewed and all prior deliverables are re-examined, giving all new team members a common reference point.

#### **Tasks**

## 4.1.1 Orient New Project Team Members

As in Project Planning, the goal of orienting new Project Team members is to enhance their abilities to contribute quickly and positively to the project's desired outcome. If the Project Manager created a Team Member Orientation Packet during

#### Tasks for this Step

Orient New Project Team Members
Review Outputs of Project Planning and
Current Project Status
Kick Off Project Execution and Control

Project Planning, the packet should already contain an orientation checklist, orientation meeting agenda, project materials, and logistical information that will again be useful.

The Project Manager should review the contents of the existing Team Member Orientation Packet to ensure that they are current and still applicable to the project. Any changes needed to the contents of the packet should be made at this time. Once updated, packet materials can be photocopied and distributed to new team members to facilitate their orientation process. The Project Manager or Team Leader should conduct one-on-one orientation sessions with new members to ensure that they read and understand the information presented to them.

If the orientation packet was not created during Project Planning and new team members are coming on board, the Project Manager must

## **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

_	er and present information that would be useful to new team bers, including:
	All relevant project information from Project Origination, Project Initiation, and Project Planning
	Organization charts - Project Team, Customer, Performing Organization
	Information on Project Roles and Responsibilities
	General information on the Customer (what they do for a living!)
	Logistics (parking policy, work hours, building/office security requirements, user id and password, dress code, location of rest rooms, supplies, photocopier, printer, fax, refreshments, etc.)
	Project procedures (team member expectations, how and when to report project time and status, sick time and vacation policy)

# 4.1.2 Review Outputs of Project Planning and Current Project Status

Before formally beginning Project Execution and Control, the Project Team should review recent Project Status Reports and the Project Plan. At this point in the project, the Project Plan comprises all deliverables produced during Project Initiation and Project Planning:

- 1. Project Charter
- **2.** CSSQ (Scope, Schedule, Quality Plan, Budget)
- 3. Risk Management Log
- 4. Description of Stakeholder Involvement
- **5.** Communications Plan
- 6. Time and Cost Baseline
- 7. Change Control Process
- 8. Acceptance Management Process
- 9. Issue Management and Escalation Process
- 10. Project Organizational Management Plan
- 11. Project Team Training Plan
- **12.** Project Implementation and Transition Plan

See the sections on Project Initiation and Project Planning for detailed descriptions of these deliverables.

This will serve to remind the team of what has been produced so far, to clarify understanding of the work to be produced during Project Execution and Control, and to again communicate the management processes that will be followed during the remainder of the project.

## 4.1.3 Kick Off Project Execution and Control

As described in Project Planning, a separate kick off meeting can be held to kick off Project Execution and Control. The Project Manager should determine the appropriate attendees and agenda, which is dependent on the size and complexity of the project (refer to Section 2.3 for more information about kick off meetings). See Appendix I / Template F for a sample agenda. Other items to cover during the meeting include:

Introduction of new team members
Roles and responsibilities of each team member
Restating the objective(s) of the project and goals for Execution and Control
Latest Project Schedule and timeline
Communications Plan
Project risks and mitigation plans
Current project status, including open issues and action items

The goal of the kick-off meeting is to verify that all parties involved have consistent levels of understanding and acceptance of the work done so far, to validate expectations pertaining to the deliverables to be produced during Project Execution and Control, and to clarify and gain understanding of the expectations of each team member in producing the deliverables. Attendees at the Project Execution and Control Kick-off Meeting include the Project Manager, Project Team, Project Sponsor, and any other Stakeholders with a vested interest in the status of the project. This is an opportunity for the Project Sponsor to reinforce the importance of the project and how it supports the business need.

As at every formal project meeting, the Project Manager should be sure that one of the Project Team members in attendance is designated as the scribe for the session, to capture notes and action items. Following the session, the notes and action items should be compiled into meeting minutes to be distributed to all attendees for review and approval, and should be added to the project repository.

## 4.2 Manage Project Execution and Control

#### **Purpose**

Project Execution and Control is typically the part of the lifecycle of a project when the majority of the actual work to produce the product is performed and the majority of the Project Budget is expended. The purpose of **Manage Project Execution and Control** is to manage every aspect of the project as work is being done to make certain the project is a success. The tasks in this

## **Roles for this Step**

Project Manager
Project Sponsor
Project Team Members
Customer Representative

process are performed concurrently and repeatedly as various aspects of the product of the project are constructed, tested, and accepted.

#### **Tasks**

## 4.2.1 Manage Project Scope

During Project Planning, the Project Manager, through regular communication with the Customer Representatives and Project Sponsor, refined the Project Scope to clearly define the content of the deliverables to be produced during Project Execution and Control. This definition includes a clear description of what will and will not be included in each deliverable.

The process to be used to document changes to the Project Scope was included in the Project Plan. This process includes a description of the way scope will be managed and how changes to scope will be handled. It is important that the Project Manager enforce this process throughout the entire project, starting very early in Project Execution and Control. Even

#### Tasks for this Step

Manage Project Scope
Manage Project Schedule
Implement Quality Control
Manage Project Budget
Monitor and Control Risks
Manage Change Control Process
Manage Acceptance of
Deliverables
Manage Issues
Execute Communications Plan
Manage Organizational Change
Manage the Project Team
Manage Project Implementation
and Transition

if a scope change is perceived to be very small, exercising the change

## **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

process ensures that all parties agree to the change and understand its potential impact. Following the process each and every time scope change occurs will minimize confusion as to what actually constitutes a change. Additionally, instituting the process early will test its effectiveness, get the Customer and Project Sponsor accustomed to the way change will be managed throughout the remainder of the project, and help them understand their roles as they relate to change.

As part of managing scope change, one of the Project Manager's functions is to ensure that the project produces all the work but ONLY the work required and documented in the Project Scope. Any deviation to what appears in the scope document is considered change and must be handled using the change control process. Sometimes, despite the best effort of the Project Manager to carefully document what is in and outside of scope, there is disagreement between the Project Manager and Customer Representative or Project Sponsor regarding whether something is a change. When conflicts occur, the Project Manager and appropriate Customer must be willing to discuss their differences of opinion and reach a compromise. If a compromise cannot be reached, it may be necessary to escalate the issue to a higher level of management.

Once the Project Manager, the Project Sponsor, and the appropriate Customer Representative agree that scope change is occurring, they all must take the time to thoroughly evaluate the change. In order to effectively evaluate change, the Project Manager must forecast the impact of the change on the remaining three "quadruple constraints": Cost, Schedule and Quality. Equipped with this information, the Project Manager and Project Sponsor will be able to determine if implementing the proposed change would be beneficial. If it is determined, for example, that the cost of implementing a change outweighs the benefit, the change should most likely be rejected or put aside for future consideration.

When a scope change is determined to be beneficial to the outcome of the project, approval and funding for the change is secured. At this point, the Project Manager must follow the procedures defined in the Project Plan to implement the change. (Managing the change control process is described in detail in 4.2.6.) Be wary of "Scope Creep". Scope Creep is the tendency of a project to include more tasks or to implement more systems than originally specified, which often leads to higher than planned project costs and an extension of the initial implementation date. Remember, a few minor changes can quickly add up to a major impact on your project.

The Project Manager must incorporate any agreed-upon changes or addenda into the deliverables produced during Project Initiation and Project Planning. This ensures that all project deliverables are in line with the revised Project Scope. Any lessons learned from scope change control should be documented and included in the project repository for later use by the current project and any other projects to be performed by the organization.

Throughout Project Execution and Control, continuous communication between the Project Manager, Project Sponsor, and Customer Representative is crucial in managing scope.

## 4.2.2 Manage Project Schedule

During Project Planning, an agreed-upon baseline was established for the Project Schedule. This baseline will be used as a starting point against which performance on the project will be measured. It is one of many tools the Project Manager can use during Project Execution and Control to determine if the project is on track.

Project Team members must use the communications mechanisms documented in the Communications Plan to provide feedback to the Project Manager on their progress. It is recommended that each team member prepare a Progress Report. This report documents effort spent on tasks and provides estimates of the effort required to complete them. Progress Reports are used by the Project Manager to update the Project Schedule. For an example of a Progress Report and instructions on how to prepare one, see 4.2.9, Execute Communications Plan.

The Project Manager must emphasize to the team the importance of accurate reporting, and must be vigilant in collecting information at a detailed level. Using the information contained in the Progress Reports, the Project Manager tracks work done against the tasks in the Project Schedule. If the time remaining to complete a task in the schedule differs from the estimated time, the schedule should be updated accordingly. It

#### **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

is recommended that the Project Manager update the Project Schedule on a regular basis. Frequent updates to the schedule not only save time in the long run, they also allow the Project Manager to quickly spot potential problem areas. Small slippages on individual tasks may combine to create significant issues with other, dependent tasks.

After updating the Project Schedule, the Project Manager must take the time to review the status of the project. Some questions that the Project Manager should be able to answer by examining the Project Schedule include:

Ц	Is the project on track?
	Are there any issues that are becoming evident that need to be addressed now?
	Which tasks are taking more time than estimated? Less time?
	If a task is late, what is the effect on subsequent tasks?
	What is the next deliverable to be produced and when is it scheduled to be complete?
	What is the amount of effort expended so far and how much is remaining?
	Are any Project Team members over-allocated or under-allocated?
	How much of the time allocated has been expended to date and what is the time required to complete the project?

Most project scheduling tools provide the ability to produce reports to display a variety of useful information. It is recommended that the Project Manager experiment with all available reports to find those that are most useful for reporting information to the Project Team, Customer, and Project Sponsor.

When updating the Project Schedule, it is very important that the Project Manager maintain the integrity of the current schedule. Each version of the schedule should be archived. By creating a new copy of the schedule whenever it is updated, the Project Manager will never lose the running history of the project and will also have a copy of every schedule for audit purposes.

The Project Manager should begin tracking actual work in the Project Schedule as soon as the work commences, which is usually as soon as the project is initiated and Project Planning begins. Work done in parallel with planning, before the Project Schedule is completed and approved, must be recorded. Remember that updates to the Project Schedule are

not limited to tracking hours worked – ANY change resulting from the execution of the change control process will usually require future tasks to be re-planned and the schedule to be updated! (see Manage Change Control Process, task 4.2.6) If the Project Schedule is updated to reflect approved change control, a new baseline schedule must also be created. Updates must then be made against the new baseline. The previous baseline should be saved for historical purposes.

## **4.2.3 Implement Quality Control**

Quality control involves monitoring the project and its progress to determine if the quality assurance activities defined during Project Planning are being implemented and whether the results meet the quality standards defined during Project Initiation. The entire organization has responsibilities relating to quality, but the primary responsibility for ensuring that the project follows its defined quality procedures ultimately belongs to the Project Manager. Figure 4-3 highlights the potential results of executing a project with poor quality compared to a project executed with high quality:

Figure 4-3

Poor Quality	High Quality
Increased costs	Lower costs
Low morale	Happy, productive Project Team
Low Customer satisfaction	Delivery of what the Customer wants
Increased risk	Lower risk

Quality control should be performed throughout the course of the project. Some of the activities and processes that can be used to monitor the quality of deliverables, determine if project results comply with quality standards, and identify ways to improve unsatisfactory performance, are described below. The Project Manager and Project Sponsor should decide which are best to implement in their specific project environment.

□ Conduct Peer Reviews – the goal of a peer review is to identify and remove quality issues from a deliverable as early and as efficiently as possible. A peer review is a thorough review of a specific deliverable, conducted by members of the Project Team who are the day-to-day peers of the individuals who produced the work. The peer review process adds time to the overall Project Schedule, but in many project situations the benefits of conducting a review far outweigh the time considerations. The Project Manager must evaluate the needs of his/her project, determine and

document which, if any, deliverables should follow this process, and build the required time and resources into the Project Schedule.

Prior to conducting a peer review, a Project Team member should be identified as the facilitator or person responsible for keeping the review on track. The facilitator should distribute all relevant information pertaining to the deliverable to all participants in advance of the meeting to prepare them to participate effectively. During the meeting, the facilitator should record information including:

- Peer review date
- Names and roles of participants
- The name of the deliverable being reviewed
- Number of quality issues found
- Description of each quality issue found
- Actions to follow to correct the quality issues prior to presenting the deliverable to the approver
- Names of the individuals responsible for correcting the quality issues
- The date by which quality issues must be corrected

This information should be distributed to the Project Manager, all meeting participants, and those individuals not involved in the meeting who will be responsible for correcting any problems discovered or for producing similar deliverables. The facilitator should also solicit input from the meeting participants to determine if another peer review is necessary. Once the quality issues have been corrected and the Project Manager is confident the deliverable meets expectations, it may be presented to the approver.

□ Use Quality Checklists – both the Project Manager and Project Team members can create and make use of various checklists to be sure items are not overlooked while a product is being developed. Checklists may be simple hardcopy lists of "things to do," or may be generated using more formal, electronic-based tools. In either case, a checklist should be comprehensive and detailed enough to ensure that the resulting product or deliverable has been built to the level required to meet quality standards. An example of a

quality checklist is the End-of-Phase Checklist found at the end of each project management lifecycle phase in this *Guidebook*.

Checklists can be refined and expanded over the course of several projects. This is a great way to reuse best practices and maintain historical information.

- Maintain and Analyze the Project Schedule this activity should never be taken lightly, regardless of the size of the project. Updating the Project Schedule on a regular basis while keeping a close watch on the timeline and budget is the primary mechanism to measure quality of the schedule. If the project timeline or budget are not on track, the Project Manager can determine why and take immediate action to remedy the problem (see Manage Project Schedule, task 4.2.2).
- □ Conduct Project Health Checks the goal of a project health check is to ensure that the Quality Assurance activities defined in Project Planning are being implemented and to determine whether quality standards are being met. It is a process to note what is being done well, to identify real or potential issues, and to suggest ways for improvement. Health checks should be performed on a regular basis, depending upon the size and length of the project. At a minimum, it is recommended that a health check be performed at the end of each phase, at lease once during Project Execution and Control, and at the end of the project.

The individual(s) performing the health check can be a member of a quality assurance department or team, if one exists, or any Stakeholder determined by the Project Sponsor to be unbiased toward the project. The individual should also be very familiar with the quality standards and procedures in place in the Performing Organization, but should have no involvement in day-to-day project activities.

An auditor will most likely use a checklist questionnaire to interview the Project Manager, selected Project Team members, the Project Sponsor, and selected Customer Representatives to gain insight into how the project is progressing. One of the most important measurements the auditor will look for during these interviews is Project Team and Customer satisfaction. Poor satisfaction is an indicator of an underlying problem that should be uncovered as the auditor delves into the specifics of the project. In addition, the project repository will be examined to determine if it contains

sufficient documentation. An auditor will look for and review the components of the current Project Plan – including the Project Scope, Project Schedule, and Risk Management Log.

Upon completion of the audit and repository review, the auditor writes a summary report documenting his/her findings and recommendations. This report is reviewed with the Project Manager, who should immediately implement recommendations and corrective actions identified.

Every member of the Project Team must be committed to producing a quality product. Quality control cannot rely on "adding" quality at the end of a process; quality must be built into the work of each individual on the team. It is far more cost effective to have Project Team members add quality into their day-to-day jobs than to have an auditor find a problem after a process has been completed.

As a result of implementing quality control, the Project Manager should be able to determine and take the appropriate actions to increase the project's effectiveness and provide better service to the Customer.

> Successful quality control processes always strive to see quality through the eyes of the Customer. The Customer is the ultimate judge of the quality of the product.

#### 4.2.4 Manage Project Budget

The Project Manager must know the extent of his/her authority to make budget decisions. For example, is the Project Manager allowed to authorize work that requires additional hours of salaried personnel time, or must employee time extensions go through the same approval process as contract personnel or equipment purchases? Often, the Project Manager must work closely with fiscal and contract personnel in other divisions to track and control costs. These relationships must be established early in the project management lifecycle.

Part of the Project Manager's job is to ensure that the project is completed within the allocated and approved budget. Budget management is concerned with all costs associated with the project, including the cost of human resources, equipment, travel, materials and supplies. Increased costs of materials, supplies, and human resources, therefore, have a direct impact on the budget. Just as task duration estimates are tracked carefully against actuals, the actual costs must be tracked against estimates. The same analysis should be conducted and the same questions asked: What other aspects of the budget were

constructed based upon these estimates? Changes to the scope of the project will most often have a direct impact on the budget. Just as scope changes need to be controlled and managed, so do changes to the Project Budget.

It is the responsibility of the Project Manager to closely monitor the financial performance of the project and take responsibility for addressing cost-related issues as they arise. In addition, the Project Manager should always be aware of the effect his/her decisions may have on the total cost of the project, both before and after the product or service is implemented.

Monitoring the financial performance of your project on a regular basis is the only way you can keep a handle on the Project Budget. Don't let the Project Budget get away from you – get into the habit of updating the schedule and analyzing the financial impact on a regular basis. Taking the time to do these administrative tasks will save you countless hours of reconciliation and balancing down the road, and warn you of impending cost issues.

There are several financial characteristics the Project Manager should monitor to determine if a project is performing satisfactorily against its budget. Most often, these values are entered into the scheduling tool by the Project Manager and calculated and displayed using its corresponding capabilities. Some budget-related characteristics the Project Manager should examine each time the schedule is updated include:

CIU	de.
	<b>Original Contract Value:</b> the original estimated budget (cost) that was approved by the Project Sponsor.
	<b>Total Approved Changes:</b> the total cost of approved changes as a result of change control.
	<b>Total Current Budget:</b> the sum of the Original Contract Value and the Total Approved Changes. This is the most current approved Project Budget.
	<b>Cost to Date:</b> the actual dollars (cost) expended to date on all tasks and materials in the Project. The labor costs can be calculated by the scheduling tool based upon the time the Project Manager tracks against the tasks in the project Schedule.
	Estimate to Complete: the dollars (cost) estimated to be expended to complete remaining project tasks. The Project Manager must

verify and assess the impact of team members' revised effort estimates to complete tasks. The Project Manager must also validate that the remaining material costs are in line with the budget. These have a direct effect on the Project Budget.

- ☐ Forecast Total: the sum of the Cost to Date and the Estimate to Complete.
- □ Project Variance: the difference between all estimated and all actual dollars. It is calculated by subtracting the Forecast Total from the Total Current Budget. A positive variance means that the actual cost of the product is less than the budgeted cost. A negative variance means that the actual cost of the product is greater than the budgeted cost.

It is of utmost importance for the Project Manager to take the time to analyze, understand, and document the reason for variance every time the Project Schedule is updated.

Whether positive or negative, the Project Manager needs to understand what is causing variance and take proactive steps to keep it under control. The Project Manager must be able to explain the cause of variance to others and determine if corrective actions need to be taken to maintain the project's budget. For example, if a negative effort variance develops while a task is being executed, then more money may be needed than originally planned for, potentially impacting the success of the project. On the other hand, some tasks may finish ahead of schedule, freeing up money and offsetting the negative impact of those that finish late. The Project Manager must remain aware of such situations, working with the Project Team members and Customers to determine the causes of variance and to mitigate any associated risks.

It is the responsibility of the Project Manager to ensure the currency, accuracy, and viability of the Project Schedule as the primary mechanism for managing the budget. He/she must know and be able to communicate exact project status relative to budget, impact of changes, estimates to complete, and variance. This information must be known by task, process, phase, resource, and deliverable and be communicated to the Project Sponsor as part of the Status Meeting.

#### 4.2.5 Monitor and Control Risks

#### **Monitor Risks**

During Project Initiation and Planning, risks were remote events with uncertain probabilities of coming true. In Execution and Control, however, impact dates draw closer, and risks become much more tangible.

The Project Manager must continually look for new risks, reassess old ones, and re-evaluate risk mitigation plans. The Project Manager should involve the whole Project Team in this endeavor, as various team members have their particular expertise and can bring a unique perspective to risk identification. As the Risk Management Log is integrated into the status reporting process, this review and re-evaluation should take place automatically, with the preparation of each new status report.

Because the Risk Management Log places risks in order according to their priority level, it is important to update all quantifiable fields to portray an accurate risk landscape. The risk probabilities may have changed; the expected level of impact may be different, or the date of impact may be sooner or later than originally anticipated — all of these variables determine which risks the Project Team will concentrate on first.

Likewise, the Risk Management Plan needs to be constantly reevaluated. Make sure the right people are still assigned to mitigation actions and that the actions still make sense in the context of the latest project developments.

Another consideration is whether a specific risk's probability level is high enough to warrant incorporating the Risk Management Plan in the Project Schedule via the change control process. If so, the risk should be removed from the log.

Finally, the Project Manager must be constantly on the lookout for additional risks. Reviewing the risks as part of regular status reporting should involve the whole Project Team via bi-directional communications.

#### **Control Risks**

Sooner or later, one of the events on the Risk Management Log – or an entirely new and unexpected risk – will actually occur. The Project Manager and Project Team members must evaluate the risk event and

invoke the Risk Management Plan. There are generally three possible response scenarios:

- 1. If the risk occurred as expected, the existing Risk Management Plan may be adequate for dealing with it.
  - Example: the project is being required to provide additional documentation to prove compliance with state regulations. However, that risk has been anticipated, and the Risk Management Plan details where and how to get the appropriate materials.
- 2. If the risk occurred in a different manner, or other circumstances have come to bear, the Risk Management Plan may have to be modified. Example: a consumer group brought pressure to examine the environmental impact of the product of the project more closely. As a result, the project is being required to obtain subject matter expert statements. Since the need was not anticipated, the original contingency plan needs to be modified to comply with the new requirements.
- 3. If the risk event was unexpected and unanticipated, a whole new Risk Management Plan must be created to address it. Example: The Federal Government issued a mandate that challenges the project from a whole different perspective. The Project Manager needs to understand what the issue is, what response is required, and how to obtain the desired result.

Regardless of the scenario, however, as soon as the risk event occurs it ceases to be a risk (future, possible event) and becomes an issue (current, definite condition). As a result, it should transition from the Risk Management Log and onto the list of current project issues, with the Risk Management Plan becoming the issue's Action Plan.

#### **Monitor Impact of Risk on CSSO**

During the entire risk management process, the Project Manager should be especially vigilant regarding the effect on the project's Cost, Scope, Schedule and Quality (CSSQ). With the proper risk management processes in place, many risk events may come to pass without affecting (either positively or negatively) the project's defining parameters. However, when a risk event occurs that threatens the project's scope, quality standards, schedule or budget, the Project Manager must determine the proper course of action to protect the integrity of the project.

Until CSSQ impact is certain, the Project Manager must, at a minimum, introduce the event to the list of current project issues. The issue's Action Plan must reflect all the tasks required to accurately determine what impact (if any) the event will have on CSSQ. Once the impact is certain and quantifiable, the Project Manager should transition the issue to the Change Control process.

## **4.2.6 Manage Change Control Process**

During Project Planning, the Project Manager, Project Sponsor, and Customer agreed on a formal change control process that was documented and included in the Project Plan. The change control process describes:

The definition of change and how to identify it
How requests for change will be initiated
How requests for change will be analyzed to determine if they are beneficial to the project
The process to approve or reject change requests
How funding will be secured to implement approved changes

Although changes can be expected to occur throughout every project phase, any negative effect on the project outcome should be avoidable if the change control process is executed and managed effectively.

The need for change is usually discovered during Project Execution, as actual task work is being performed. It is during Execution that the Project Team may discover their original effort estimates were not accurate and will result in more or less effort being required to complete their work. It is also during Execution that the Project Sponsor or Customer may realize that, despite their best efforts to thoroughly document the Project Scope, the product being produced is not exactly what they need. It is the responsibility of the Project Manager to keep a close watch on factors that could introduce potential "scope creep" and take proactive steps to prevent it from occurring, or to manage it as it occurs.

Sometimes change control is required if a Project Team member is not able to complete what was documented in the Project Scope, because of lack of skill, time constraints, or other factors outside his/her control. In most cases, these difficult to manage situations often result in lost time in the Project Schedule and can have a major impact on the project.

When someone does not do something he or she was supposed to do as documented in the Project Plan, the resulting change is called a "Non-Compliance" change.

Sometimes change is simply informational and will most likely not affect the Project Scope or Schedule (e.g., the name of a Project Team member or the physical location of the Project Team offices may change). Changes that do not affect the project's CSSQ do not need to follow the formal change control process, but should be documented in the Project Status Report or any other appropriate communication mechanism.

However, for all changes that affect the project's CSSQ, it is vitally important for the Project Manager to implement and manage the change control process in every situation. Not doing so will cause confusion on the part of the Customer as to what constitutes a change. The change control process also helps maintain balance between the requirements of the project and the timeline and cost.

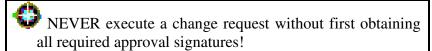
During Project Planning, individuals authorized to be requestors, reviewers, and approvers of change requests were identified and information about them was documented in the change control process. Change control begins when a requestor completes a change request form and submits it to the appropriate reviewer(s).

The role of the reviewer(s) in the change control process is to analyze the request in terms of the level of effort and skill required to implement it. The reviewer, typically an expert in the subject area, will also make a recommendation to accept or reject the change request based upon its feasibility from a technical or implementation standpoint. He/she will communicate this information to the Project Manager and document it on the Project Change Request.

One of the roles of the Project Manager in the change control process is to analyze the reviewer's recommendation, and determine the overall effect of the requested change on the Project Schedule in terms of effort, cost, and resource requirements and availability. This information will be documented on the Project Change Request and presented to the approver(s).

The approver(s) review the information and make a determination whether to approve the change request based upon the potential benefit of its implementation to the organization. If, for example, the implementation costs far outweigh the business benefit, the change request will most likely be rejected. A signature is required of all

approvers, whether they are accepting or rejecting the request. If the request is being rejected, the approver must provide a reason. A signature of approval on the Project Change Request indicates that the approver accepts the consequences (impact) of the request on the project's Cost, Scope, Schedule or Quality.



Once a change request has been approved, the Project Manager must incorporate the effect of the change into the Project Schedule. All affected tasks, estimated durations, dependencies, and resources must be modified. A new baseline should then be created for the amended schedule and budget. These become the new tools against which hours will be booked and project performance measured going forward.

REMEMBER: Make a copy of the new baseline schedule and archive it in the project repository BEFORE you book new work to it! If you lose the baseline, you have nothing against which to compare later updates to see if your project is on track!

In addition, if new deliverables will be produced as a result of the change, their exact description must be included in the Project Plan, either as appendices to the Project Scope, or as separate attachments. In addition, any changes that affect the remaining components of CSSQ must be documented. All correspondence, supporting documentation and other information pertaining to the change should be saved in the appropriate location in the project repository.

#### 4.2.7 Manage Acceptance of Deliverables

The goal of this task is to manage the acceptance of deliverables according to the acceptance management process developed during Project Planning. The acceptance management process is part of the Project Plan, and documents:

The definition of "acceptance"
The criteria that must be met for each deliverable to be considered
"accentable"

## **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

of each deliverable – typically reviewers are experts in the subject matter the deliverable covers
The number and identity of Customers designated to be approvers – approvers have the authority to sign the approval form, indicating acceptance
The number of business days in which deliverables must be either approved or rejected by the reviewers and approvers
The number of times a deliverable can be resubmitted
The escalation process that will be followed if a timely decision on approval or rejection of a deliverable is not met

The acceptance management process must be followed throughout the project. As with the change control process, the earlier in the life of the project the process begins, the sooner everyone will understand how it works and what to expect. The key to facilitating acceptance is first to understand Customer expectations, and then to meet them.

The acceptance management process is not set in stone. If, while executing the process, you discover parts of it are not working as expected, adjust the process to more closely fit the needs of the project. Just be sure to document your changes and get Customer approval before implementing them.

Acceptance begins when the Project Manager presents a completed deliverable and Project Deliverable Acceptance Form to the approver (see Appendix I / Template I - Deliverable Acceptance Form). When logistically possible, the Project Manager must take the time to formally review the deliverable, in person, with the approver. In some cases, the approver's geographic location or work shift prohibits face-to-face communication. Where in-person communication is feasible, it is recommended that the Project Manager not simply send the deliverable via email or leave it on the approver's desk. If the Project Manager has done a very thorough job in setting expectations, the approver may indicate acceptance at the end of this face-to-face presentation. More likely, however, the approver will prefer to have designated reviewers examine the document or product and recommend a course of action.

The reviewers independently analyze the deliverable and produce a recommendation as to whether to accept the deliverable, providing their comments and signature on the accompanying approval form. This must

be done within the turnaround time documented in the acceptance management process. If a reviewer recommends the deliverable be rejected, he/she must provide the reason and forward the package back to the approver. This process should be followed for each person designated as a reviewer in the acceptance management process.

Keep in mind that the review and approval process will take more time if several reviewers or approvers need to get involved!

Using input and recommendations provided by the reviewer, the approver reviews the deliverable and decides if it meets the acceptance criteria documented in the acceptance management process. He/she will indicate acceptance or rejection of the deliverable on the Project Deliverable Approval Form. Once again, this must be done within the turnaround time documented in the acceptance management process. If the approver recommends the deliverable be rejected, he/she must provide the reason and forward the package to the Project Manager. It is then the responsibility of the Project Manager to have the deliverable adjusted as necessary and then resubmit it to the approver. This process should be followed for each person designated as an approver in the acceptance management process. The Project Manager must ensure that for rejected deliverables, specific corrective actions are defined, i.e., "I would accept this if..."

It is the responsibility of the Project Manager to be cognizant of the time elapsing during the review and approval process, in an attempt to complete the process within the maximum number of business days agreed upon and documented. Significant delays in the process should trigger the Project Manager to escalate the situation, following the documented escalation procedure. Similarly, the Project Manager should be aware of the number of times the acceptance process is being repeated. How many times is the Project Team making changes to a deliverable based upon its rejection? The number of times a deliverable can be resubmitted to the approver was also documented in the acceptance management process. If a deliverable is rejected more than once, the Project Manager should take immediate action to analyze the situation, resolve the conflict, or exercise the appropriate escalation procedure to get it resolved. A serious delay in the acceptance of a deliverable will almost always result in project delays.

If the number of iterations becomes unreasonable, the Project Manager should recognize that a bigger problem may exist, and should take the appropriate action to find out what it is and fix it!

The Project Manager should maintain a log of the activity that transpires while a deliverable is going through the acceptance management process. The deliverable acceptance log can be included as part of the Status Report that is reviewed with the Project Sponsor (See Appendix I / Template H - Project Status Report).

Once a deliverable is considered acceptable, the Project Manager should gain the appropriate signatures on the Project Deliverable Approval Form. Signatures on the form indicate formal acceptance of the deliverable. Place the signed deliverable approval form into the project repository.

## 4.2.8 Manage Issues

Managing issues involves documenting, reporting, escalating, tracking, and resolving problems that occur as a project progresses. During Project Planning, the Project Manager and Project Sponsor agreed upon and documented the process for managing issues and included the process in the Project Plan.

The issue escalation and management process addresses the following:

How issues will be captured and tracked
How issues will be prioritized
How and when issues will be escalated for resolution

Issues are usually questions, suggestions, or problems raised by Project Team members, including the Project Manager and Customer. They are different from changes in that they do not usually have an immediate impact on the Project Scope or Schedule. If issues remain unresolved, however, they are likely to affect the Project Schedule or Budget, resulting in the need for change control. It is, therefore, very important to have an issue escalation and management process in place, and to execute the process before change control procedures become necessary.

Anyone involved in a project in any way can and should inform the Project Manager of issues. It is the responsibility of the Project Manager and Project Sponsor to foster an environment where communicating issues is not only acceptable but strongly encouraged. Individuals should

feel a responsibility to the organization to voice their concerns. If individuals are fearful of communicating issues, the resulting effect on the project can be devastating.

The Project Manager should be cautious about reacting to an issue that is communicated by "shooting the messenger." This sends the wrong message to the Project Team. No matter how devastating the news or the issue, the Project Manager should thank the person who raised the issue and solicit ideas from that individual and other team members for its mitigation.

The Project Manager is responsible for capturing and tracking issues as soon as they arise, using the issues log section in the Project Status Report. Issues with the potential to impact Scope, Schedule, Cost, or Quality should be documented in the report (See Appendix I / Template H - Project Status Report).

Below are some examples of project issues:

Computer system will be down for routine maintenance
Project Sponsor is taking another job
Project Team member start date may be sooner (or later) than expected
There is a delay in approving or rejecting a change request or deliverable
Severe weather is predicted in the area of the building site

Once the description of a new issue has been logged, the Project Manager should estimate the potential impact the issue could have on the project. Based upon potential impact, the Project Manager prioritizes the issue in relation to all other open issues. The goal of issue management is to resolve all concerns completely and promptly, but in reality the issues with the highest priority should be addressed first.

The issues log should also include the date the issue is recorded, its anticipated closure date, and the name of the individual responsible for resolving it or seeing that it is resolved. The due date for closure must be a specific date (i.e., the date cannot be "ASAP"). The responsible party must be a specific individual, not a functional group (i.e., an issue should not be assigned to the "IT Department" or the "DBA group").

While the issue remains open, its continuing impact and the status of its action plan should be discussed at every status meeting. If appropriate resources or materials are not available to complete the action items, or if there is disagreement about any of the elements on the issues log, the Project Manager should invoke previously-defined escalation procedures. Unresolved issues are one of the leading causes of project failure, and the Project Manager must pursue issue resolution relentlessly.

As progress occurs on the resolution of an issue, the Project Manager should update the issues log to reflect what has occurred. As issues are closed, they should be moved to a different section of the issues log. Along with a description of how the issue was resolved, the Project Manager should document who resolved the issue and the closure date.

When managing issues, document EVERYTHING (yes, EVERYTHING) that happens as issues are resolved. Be sure to note what happened, when it happened and who was involved. Don't skimp on the details. Keep an issues "diary."

When issues are closed, don't delete them from your issues log – instead maintain the "diary" of closed issues in a separate file or folder or section of the log. This "diary" will ensure that you cover your bases, and the information included in it may become invaluable to you or another Project Manager as lessons learned when resolving similar issues down the road!

#### 4.2.9 Execute Communications Plans

During Project Planning, the Communications Plan was refined to describe how project communications will occur, and expanded to describe the way communications will be managed. As a project progresses, events may occur to alter the way information is accessed or change communications requirements. During Project Execution, the Project Manager and Project Team must again review whether the Communications Plan is still current and applicable to the project. If it is determined that any portion of the plan is no longer applicable, the Project Manager should update the document.

During Project Execution the Communications Plan is carried out so that required information is made available to the appropriate individuals at

the appropriate times, and new or unexpected requests receive a prompt response. Communications must continue to be bi-directional during Project Execution. The Project Manager must provide required information to the Project Team and appropriate Stakeholders on a timely basis, and the Project Team and Stakeholders must provide required information to the Project Manager.

In addition to having a solid Communications Plan in place, it is the responsibility of members of the Project Team to exercise good communication skills. When composing correspondence, progress reports, meeting minutes, etc., and when speaking with individuals face to face, the team members are responsible for clear, unambiguous, and complete communication of information. The receiver, in turn, must be sure information is not only received correctly and completely, but that it is understood.

During Project Execution, the Project Manager, Project Team, and Stakeholders will share information using a variety of communication mechanisms. These were defined during Project Planning and may include:

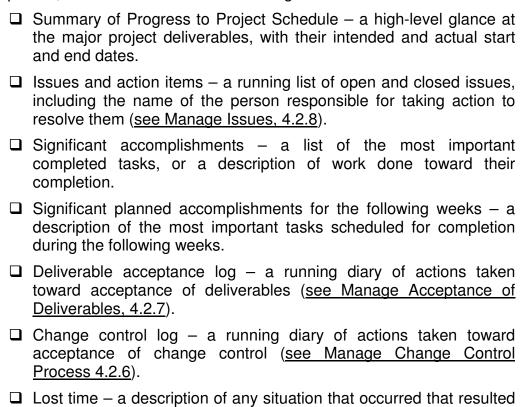
Ц	Status Meetings
	Status Reports
	Memos
	Newsletters
	Executive Correspondence
	Meeting Notes
	Executive Meetings
	<b>Steering Committee Meetings</b>

This information is collected, stored and disseminated based upon procedures established and documented in the Communications Plan. While executing the plan, the Project Manager must be aware of how the organization will use the information, and whether the plan is effective. He/she must be flexible and ready to modify the plan if portions of it are not working as expected or communications needs change within the Performing Organization.

Of the many mechanisms available to the Project Manager, status reporting is particularly useful for communicating the performance of a project. Project Team members must complete *Progress Reports* providing regular feedback to the Project Manager. These reports can

serve a dual purpose – as a reporting mechanism to the Project Manager and also to the team member's immediate supervisor. Progress Reports should document detailed descriptions of actual work accomplished and include Team members' estimates of the effort they feel will be required to complete tasks. Progress Reports should also contain information regarding work to be done in upcoming weeks, and list any issues preventing completion of required tasks. When correctly completed by the Project Team, the reports are very useful to the Project Manager for updating the Project Schedule, and for anticipating issues and proactively planning ways for their resolution (See Appendix I / Template G - Progress Report).

Using the Progress Reports prepared by the Project Team, the Project Manager should complete a Status Report to be presented to the Project Sponsor. In this report, the Project Manager measures the "health and progress" of the project against the Project Plan. It is the primary communication vehicle between the Project Manager and the Project Sponsor, and should contain the following information:



in the Project Team being unable to perform work.

The Project Manager should determine the frequency of status meetings based upon the current state of the project and his/her good judgment. Weekly meetings may be sufficient during times of normal project activity, but during "crunch times" it may be necessary to gather more frequently. When a deadline is approaching and/or the Project Team appears to be under stress, consider holding a quick "sanity check" at the beginning of each day to ensure the team understands and remains focused on the important tasks for that day.

Other project documents that should be attached to the Status Report include any Change Control Requests, Deliverable Acceptance Forms, Meetings Notes, and the Risk Management Log.

The Status Report becomes the point of discussion for the Status Meeting, the regularly scheduled forum where the Project Manager presents the project status and discusses issues with the Project Sponsor.

The Project Manager should periodically assemble the Project Team to review the status of the project, discuss their accomplishments, and communicate any issues or concerns in an open, honest, constructive forum. These meetings are ideal opportunities for the Project Manager to gain insight into the day-to-day activities of Project Team members, especially if the team is large and individual interaction between the Project Manager and each team member is infrequent.

During the meeting the Project Manager should review the Project Schedule with the team and verify with each member the work that needs to be accomplished in upcoming weeks. Part of the meeting should focus on the team's Progress Reports, to verify estimates to complete tasks and to discuss issues that may impact estimates. The Project Manager can then use information communicated during the Project Team meetings as input to the Status Report.

Conduct a regularly-scheduled meeting with the Project Sponsor, using the Status Report to drive the agenda. If necessary, invite members of the Project Team who have expertise in a certain area you plan to discuss. Use the meeting time wisely – it is a great opportunity to have focused, dedicated time with your Project Sponsor and is the perfect forum for communicating the status of the project and planning ways to proactively resolve any issues or concerns.

Even though information is presented to the Project Sponsor at a summary level, it is very important to record and maintain ALL the detailed, supporting task-level information. Detailed information can be included as an appendix to your Status Report, or maintained in a separate document. Regardless of its location, detailed information should always be made available to the Project Team, and will be invaluable to you if your Project Sponsor requests clarification or more information.

The regularly-scheduled Project Team meeting is also a good forum to recognize individual accomplishments, and to reward team members for outstanding work.

On large projects where gathering the entire team is prohibitive, Team Leaders can assemble the appropriate Project Team members for meetings. It will then be necessary for Team Leaders to meet regularly with the Project Manager to ensure all communication lines remain open.

As documents are gathered and generated during Project Execution, the Project Manager is responsible for filing them in the appropriate location in the project repository. The repository must be maintained on a continuous basis, as it represents a history of the project, from its inception through closure. It will be used as a reference manual throughout the project and should, therefore, be made available to every member of the Project Team. At a minimum, the Project Manager should make sure the following repository items are always current:

☐ Project Schedule, including any project financials

Status Report (see Appendix I, Template H)
Team member Progress Reports
Team member timesheets, if used
Risk Management Log
All correspondence, including any pivotal or decision-making memos, letters, email, etc.
Meeting notes, results and/or actions
A.

The project repository puts the history of the project at your fingertips, but only if it is kept up-to-date! It ensures project continuity even if the Project Manager gets promoted or reassigned.

## 4.2.10 Manage Organizational Change

During Project Planning, the Project Manager and Customer developed an Organizational Change Management Plan, taking into consideration the impact the product of the project will have on the Performing Organization.

During Project Execution, as the product is being produced, the Project Manager and Customer must evaluate the Organizational Change Management Plan documented during Project Planning to be sure it is still current. Because more information about the specific changes to the organization in terms of people, process and culture is known, it is quite likely that the plan will need to be adjusted and more details developed.

It is extremely important for the Project Manager and Project Sponsor to be actively involved in the change effort, and to proactively manage communications with the Performing Organization and Customers. As specific changes are implemented in advance of and in preparation for the final product of the project, all involved parties must be made aware of the anticipated timing of events to give them ample time to prepare and participate as required.

Managing Organizational Change should include:

□ People: Planned workforce changes must be executed in careful coordination with, and usually at the direction of, the Human Resource department of the Performing Organization, and in conjunction with appropriate labor/management practices. Specific changes in job duties, staff reductions or increases, and any changes in the organizational structure itself should be performed in

accordance with the plan, and should include appropriate coordination and communication with union representatives and the external agencies involved. The Project Manager must work with these organizations to execute the changes as planned and scheduled, being sensitive to minimize any impact to them.

- □ Process: The redesign of existing business processes affected by the implementation of the product of the project, and the development of corresponding procedures, must be managed in coordination with product development. The redesigned processes and procedures must align with the product and associated changes. The implementation of the new processes, and any associated training or announcements regarding their introduction into the Performing Organization, must be integrated with the product implementation (to coincide with or precede the product, as appropriate). The Project Manager must manage these particular aspects of the schedule with diplomacy and tact. The active involvement of the Project Sponsor may be required as changes are implemented.
- ☐ Culture: Specific plans were developed based on the extent of the "culture shock" the product of the project was expected to introduce into the Performing Organization and its business strategy, performance. leadership established norms for approach, management style, approach to Customers, use of power, approach to decision making, and employee roles. Using the results of the assessment of the Performing Organization's "readiness for change," the Project Manager can develop more specific action plans to increase the organization's readiness and ability to adapt to the changes of the project. Most likely, these will include education and training events that can be targeted to specific audiences affected by the changes. The plans should provide information about the changes well in advance of implementation, so that affected Stakeholders have ample opportunity to express their concerns. To the greatest extent possible, the Stakeholders should be given a "preview" of how the product will actually work. They should also be given adequate training on how to adjust to change, how to work in the new environment, or similar "soft skills."

The Project Manager, with the active participation and support of the Customer and Project Sponsor, must be able to manage the specific activities that will adequately prepare the Performing Organization for the anticipated changes.

#### **4.2.11 Manage the Project Team**

In order to successfully meet the needs of a project, it is important to have a high-performing Project Team made up of individuals who are both technically skilled and motivated to contribute to the project's outcome. One of the many responsibilities of a Project Manager is to enhance the ability of each Project Team member to contribute to the project, while also fostering individual growth and accomplishment. At the same time, each individual must be encouraged to share ideas and work with others toward a common goal. The Project Manager, then, must be a leader, communicator, negotiator, influencer, and problem solver! The level of skills and competencies to successfully fill these roles helps distinguish good Project Managers from great ones.

To maximize the successful performance of the Project Team, the Project Manager must do the following:

## **Execute the Training Plan**

During Project Planning, the Project Manager evaluated the skills of each team member to determine whether he/she met the current and future needs of the project. For each team member requiring training, the Project Manager established a Training Plan. The Training Plan includes the method by which each team member will be trained, and the corresponding training schedule. During Project Execution, the Project Manager must review the contents of the Training Plan to be sure they are still applicable to the project. If additional training is necessary, it should be added to the plan. If it is determined that planned training is no longer necessary, it must be removed from the plan. If new team members have joined the project since the Training Plan was established, the Project Manager must evaluate the skill level of the new members to determine if additional training is needed. In all cases, training tasks must be added to or removed from both the Training Plan and the Project Schedule, since they will affect the end date of the project.

As training takes place during Project Execution, the Project Manager should update the Training Plan with the names of the trainees and actual training completion dates. This information will be used to measure the success of the Training Plan, and enable the Project Manager to provide input for evaluating team members and preparing staff performance appraisals. In addition, the Project Manager should mark the corresponding Project Schedule tasks as complete.

#### **Allocate Work Properly and Ensure Accountability**

A basic responsibility of the Project Manager is to assign work to the Project Team and ensure that the work is completed according to the Project Schedule. The Project Manager (or Team Leaders if the project is large) is responsible for allocating tasks to appropriate team members at the appropriate times. A good Project Manager establishes and maintains a Project Schedule that minimizes team member down time. Along with the Team Leaders, the Project Manager must continuously communicate to each member of the team what is required and by when, and then manage the performance of each team member in meeting the requirements.

Since the Project Manager is ultimately responsible for the success or failure of a project, he/she must direct Project Team endeavors and encourage team members to be accountable for their work. Accountability should be formally documented and measured through the use of team member Progress Reports (see Appendix I / Template G - Progress Report). But the Project Manager must also be willing to communicate face-to-face with the Project Team. Regular personal communication is one of the most effective ways to gather input on the status of project activities, discuss issues and concerns, recognize good work, encourage and provide support to team members who are struggling, and build relationships. It is also one of the primary ways to discover and take action to resolve team member performance issues.

## **Establish a Team Environment**

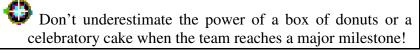
Project Team members must learn to work together to achieve project goals. They must recognize that there is more to teamwork than simply having team members feel good about each other. High-performing Project Teams are disciplined. Team members participate in all required meetings, are willing to suppress their egos for the good of the group, take their assigned tasks seriously, and continuously strive to improve their skills. High-performing Project Teams are either empowered to make decisions or are included in decision-making processes. This is the essence of project ownership.

Project Managers must develop sufficient management competencies to be able to create an environment that encourages team members to excel. The Project Manager may consider implementing some of the following:

☐ Team-Building Activities — these are actions taken specifically to improve the performance of the entire team. Activities can range from short items on a meeting agenda to extended, off-site

professionally facilitated sessions. However implemented, teambuilding activities provide opportunities for team members to improve their interpersonal and working relationships.

□ Team Recognition and Rewards – these are actions intended to promote, encourage, and reinforce desired behavior or exceptional performance. Frequently they are initiated by individuals at management level, but they are also very effective when initiated by an individual's peer. In all cases, recognition programs must be documented clearly enough so team members understand what level of performance warrants an award.



The primary objective for establishing an appropriate team environment is to improve overall project performance. When team members are encouraged to do their best and are motivated about a project, they are more likely to do whatever is necessary to improve their individual skills so they are more efficient and effective in performing their assigned activities. And when team members understand the importance of interacting with each other, they are more willing to identify and proactively deal with conflict. Resolving issues early leaves team members more time for producing actual project work.

### **Manage Personnel Changes**

All organizations change. Personnel may transfer to different assignments or leave their employers, new individuals may be added to a Project Team or Customer organization, or the nature of the project may change, forcing a change in project responsibilities or reporting structure. A successful Project Manager has a plan in place to minimize the effect these types of changes may have on the outcome of the project or the morale of the Project Team. At a minimum, this plan should describe what to do when there are changes to the Project Team, but it should also discuss the actions to take if the Customers change. The process may be formal or very informal, depending on the size and needs of the project. In all cases, changes to the Project Team or Customer will most likely require updates to the Project Schedule.

#### 4.2.12 Manage Project Implementation and Transition

During Project Planning, the Project Manager formulated and documented a plan for implementing or deploying the product of the project, and for transitioning the responsibility for the outcome of the project from the Project Team to the Performing Organization. During Project Execution and Control, this Implementation and Transition Plan will be more fully developed as the product of the project is developed, and as specific activities in the plan are executed.

During Project Execution and Control, the Project Team will gain a better understanding of the impact the resulting product will have on the Performing Organization and Consumers. Activities begin that are required to prepare the Consumers to use the product, along with the tasks to prepare the Performing Organization to support it.

Managing Implementation and Transition includes:

- Monitoring and ensuring timely completion of all facilities issues, such as acquiring the necessary physical space, installing appropriate software, obtaining the appropriate building permits, etc.
- □ Coordinating Customer Acceptance Testing, including logistics of when and how Customers will test the product to confirm that it meets requirements before it is formally implemented and transitioned. Customer testing is one of the last opportunities for necessary changes to be identified and made to the product before rollout. Time for sufficient Customer testing and any resulting rework that will affect the Project Team must be incorporated in the Project Schedule.
- Managing the steps that need to be taken to ensure Consumers will be ready to use the product once it is implemented. These steps must be coordinated with the Organizational Change Management Plan, and will include training and orientation on the use of the product. Any training for Customers or Consumers must be provided according to the plan and coordinated with other aspects of the implementation of the product.
- Managing the detailed implementation. The Project Manager must monitor implementation activities and make any necessary adjustments. The implementation will vary depending upon the needs of the Performing Organization and the product of the project. Some implementations are "done" at the flip of the final switch, such as opening a new highway, or publishing a book. Others are phased into implementation, like installing an inventory management system module-by-module, moving to a new building floor-by-floor, or implementing a new business process location-bylocation.

- Managing the steps that need to be taken to ensure the appropriate individuals are ready to support the product once it has been implemented and is in use. This may include negotiating with various internal organizations to determine the appropriate timing of the transition of responsibility, assigning specific organizations and individuals to support the specific products, and providing necessary training. The Project Manager must carefully manage the point in implementation that the Performing Organization takes responsibility for production problems, "help" or trouble calls, and for resolving the problems, and ensure that all pre-requisites for transition have been met for example, performance standards, quality standards, etc.
- □ Coordinate with the Marketing Manager to ensure marketing is ready once the product is in production. This may not be applicable to all projects.
- ☐ Managing production of all necessary documentation. The Project Manager must ensure that all documents or records that will be provided with the product are produced. Examples of documentation include:
  - o User manuals
  - On-line help
  - Assembly or usage instructions
  - Technical Manual

Overall, the Project Manager must be sure each required activity is carried out according to the Implementation and Transition Plan and schedule, and to immediately communicate any discrepancies to the Project Sponsor.

# 4.3 Gain Project Acceptance

### **Purpose**

The purpose of **Gain Project Acceptance** is to formally acknowledge that all deliverables during produced Project Execution and Control have been completed, tested, accepted, and approved by the project's Customers and the Project Sponsor, and that the product or service the project developed was successfully transitioned from the Project Team to the Performing Organization. Formal

#### **Roles for this Step**

Project Manager
Project Sponsor
Project Team Members
Customer Representative
Customer Decision-Maker

acceptance and approval also signify that the project is essentially over, and is ready for Project Closeout.

#### **Tasks**

# 4.3.1 Conduct Final Status Meeting

Once the product of the project has been successfully transitioned to the Performing Organization, the Project Manager should prepare the final status report and conduct the final status meeting. The Project Schedule must be

### Tasks for this Step

Conduct Final Status Meeting
Gain Acceptance Signature
from Project Sponsor

up to date for all completed project and project management lifecycle phases. This is the final opportunity for all participants to confirm that the product of the project has been successfully developed and transitioned. Any outstanding issues or action items must be transitioned from the Project Team to the Performing Organization.

#### 4.3.2 Gain Acceptance Signature from Project Sponsor

As the deliverables of the project are produced and accepted, approval signatures are gained from the Project Sponsor and Customer Decision-Makers. Following the final status meeting, the Project Manager must obtain the Project Sponsor's signature one final time, indicating acceptance of the project to date, and indicating approval to proceed to Project Closeout (see Appendix I / Template K - Project Acceptance

<u>Form</u>). If the Project Sponsor does not accept the project, he/she must indicate the specific reason(s) for rejection. The Project Manager is then responsible for resolving the issues and seeking the Project Sponsor's acceptance again.

# **Project Execution and Control End-of-Phase Checklist**

#### **How to Use**

Use this checklist throughout Project Execution and Control to help ensure all requirements of the phase are met. As each item is completed, indicate its completion date. Use the Comments column to add information that may be helpful to you as you proceed through the project. If you elect NOT to complete an item on the checklist, indicate the reason and describe how the objectives of that item are otherwise being met.

Figure 4-4 End of Phase Checklist

<b>Item Description</b>	Completion	Comments	Reason for not
	Date		Completing
Launch Project			1
Ensure team members have			
whatever is required to			
perform their tasks			
Meet with each team			
member to convey roles and			
responsibilities			
Distribute copies of all			
project materials and			
deliverables to all team			
members			
Hold orientation sessions for			
new members			
Review previous			
deliverables and components			
of Project Plan			
Schedule time and location			
of kick-off meeting			
Prepare materials for			
distribution at meeting			
Invite appropriate attendees			
Prepare meeting presentation			
and agenda			
		1	

# **Chapter 4** – Project Execution and Control ND Project Management Guidebook

Item Description	Completion	Comments	Reason for not
	Date		Completing
Designate meeting scribe			
Conduct kick-off meeting			
Distribute meeting notes to			
all attendees			
Update the project repository			
Manage Project Execution and Control			
Update and analyze the			
Project Schedule as needed			
Conduct peer review of			
deliverables, if appropriate			
Implement quality checklists			
Conduct project health			
checks			
Manage the budget by			
monitoring financial			
performance regularly			
Update project repository			
Review identified risks with			
Project Team and Project			
Sponsor			
Re-evaluate each risk			
Update Risk Management			
Log regularly			
Execute contingency plans			
or modify them, if necessary			
Create new contingency			
plans to accommodate new			
risks			
Update project repository			
Execute change control			
process when necessary			
Gain acceptance and			
approval of all deliverables			
Identify and resolve issues,			
escalating them if necessary			
Provide timely			
communications according			
to Communications Plan			
Prepare Project Status			
Report regularly			
Conduct status meeting with			
Project Sponsor regularly			

# Chapter 4 - Project Execution and Control ND Project Management Guidebook

Item Description	Completion	Comments	Reason for not
•	Date		Completing
			1
Ensure status meetings are			
being held with Project			
Team regularly			
Conduct training for support			
personnel			
Conduct training for			
Consumers			
Communicate rollout			
information			
Conduct training for Project			
Team members and update			
Training Plan			
Allocate and assign work to			
Project Team members			
Conduct team building			
activities			
Reward team members			
Manage Project Team			
member changes			
Manage changes to			
Customer's organization			
Acquire necessary physical			
space and equipment to			
support the product			
Transition product to			
Performing Organization			
Update the project repository			
Gain Project Acceptance			
Prepare final Status Report			
Prepare formal Project			
Acceptance Form			
Conduct final Status Meeting			
with Project Sponsor and			
present Project Acceptance			
Form			
Resolve any issues			
Gain final project acceptance			
signature from Project			
Sponsor			

# **Measurements of Success**

The ultimate measurements of success for Project Execution and Control are the product acceptance by the Customer, and project acceptance by the Project Sponsor. Meanwhile, the Project Manager can still assess how successfully the project is proceeding through Project Execution and Control by utilizing the measurement criteria outlined below. Because the processes in this phase (between Kick-off and Acceptance) are iterative, continuous and concurrent, the measurements for these processes need to be taken at regular intervals – probably coincidental with project status meetings. More than one "No" answer indicates a serious risk to the eventual success of your project.

**Figure 4-5 Measurements of Success** 

Process	Measurements of Success	Yes	No
Launch Project	Did you receive confirmation from ALL Project Team		
	members that they agree with their role descriptions,		
	and that they understand and agree with the project		
	objectives, risks and timetables as recorded in the kick-		
	off meeting notes?		
Manage Project	Do your team members agree that the estimates to		
Execution and Control	complete for all open tasks are accurate?		
	Has your team implemented any "lessons learned" from		
	either the peer review or the project health check		
	process?		
	Is the Project Sponsor aware of the latest total current		
	budget for the project?		
	Is your schedule current?		
	Have you adjusted the risk priority level for any risks on		
	the Risk Management Log?		
	Were all changes to the scope, schedule, cost or quality		
	parameters of the project made with a signed Change		
	Control Request?		
	Have all deliverables been presented to decision makers		
	with prior preview of the deliverable in progress?		
	Is the deliverable approval cycle less than or equal to		
	the period of time identified in the Acceptance		
	Management Plan?		
	Are all project issues recorded in the Issue Log in the		
	Project Status Report?		
	Is the Status Meeting being held as often as indicated in		
	the Communications Plan?		
	If any Customer Decision-Makers are consistently		
	absent from the status meetings, have they designated a		
	replacement?		

# **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

	Are you confident that the organizational preparedness		
	for the project is proceeding according to the plan you		
	agreed to?		
	Are your team members showing no lost time in their		
	Progress Reports?		
Gain Project Acceptance	Do you have a Project Acceptance Form signed by your		
	Project Sponsor accepting the project?		

# **Phase Risks/Ways to Avoid Pitfalls**

Project Execution and Control is where the rubber meets the road. In the immortal words of Yoda, it's "Do! Or do not! There is no try.

"What are some of the key elements of Project Execution and Control that require the most attention? Not surprisingly, this phase has the most pitfalls and the most areas for consideration. The following table identifies processes and tasks which have pitfalls highlighted in this section.

Figure 4-6 Importance of Project Execution and Control – Avoiding Pitfalls

Process	Task	Why is it important?
Manage Project	Manage Project	Schedule slippage is the most visible sign
Execution and	Schedule	of a project in trouble.
Control	Manage Issues	"That malfunctioning little #@?*!, this is all
		his fault."
		Maybe, maybe not. But it's still your responsibility to make sure the actual problem is fixed.
	Manage	"Don't be too proud of this technological
	Acceptance of Deliverables	terror you've constructed."
		Your product is only as good as your
		Customer thinks it is.
	Execute	"Don't get technical with me!"
	Communications	
	Plan	Communicate with your Customers as you would have them communicate with you.

Process	Task	Why is it important?
Manage Project Execution and Control (cont.)	Manage Organizational Change/Manage Product Implementation and Transition	You may have created the most awesome product in the known universe, but what good is it if the organization is not ready to utilize it?
	Manage the Project Team	"Who's the more foolish the fool or the fool who follows him?"  With some teams, it's hard to tell who's leading whom. Don't let that happen to you!

# PITFALL #1 - YOUR SLIP IS SHOWING (OR YOU WISH YOU WERE A DAY LATE AND A DOLLAR SHORT!)

OK, the unthinkable has happened. Your project is actually behind schedule. Every week, something seems to happen, something quite outside everyone's control. You analyze, advise, reason, plead – and yet here you are, adjusting your deliverable dates once again. And the worst part of it is, deep down you really don't know why or, more importantly, what you can do about it.

Well, there is no need to panic. After all, you can always turn to the wise old Project Manager in the office across the hall who is ready and willing to help you, right? No? Oh well, then, you can always panic.

But before you do, let's figure out what's wrong. There may be myriad reasons why the schedule slips, but some of them are much more likely to occur than others. Broadly speaking, the fault may lie not in our stars, but in:

-	
	Our customers. They love to change their minds – all the time!
	Our teammates. They may not be prepared, or may not have "the right stuff."
	Our environment. We may be camouflaged for desert warfare, but find ourselves fighting through the swamp.
	Our selves. In the final analysis, the buck always stops with the Project Manager. So whatever is going wrong – it's probably your fault (at least for not managing it properly!).

Now let's tackle each problem in turn, starting with the most likely one.

**Problem:** Management shortcomings.

Solution: C3PO said, "It's against my programming to impersonate a Deity!" But many Project Managers try, or feel they ought to. The tough part is that Project Manager's failures tend to disguise themselves as something else. When the Project Manager does not apply the right methodology to requirements gathering, and does not apply the right discipline to documenting its outcome, the result may appear to implicate Customers. When the Project Manager does not set up the right Project Team structure, and does not apply the right discipline to delivering assignments to all team members, the result may appear to imply an incompetent Project Team. When the Project Manager does not select the right technology, or does not secure enough support from the Performing Organization, the result may appear to indicate an unfavorable environment.

But the odds are, when something is going wrong, you should "start with the man in the mirror and ask him to change his ways."

**Problem:** The requirements are not clear, or they are constantly changing.

**Solution:** Well, it takes no genius to realize that you can't hit a target you can't see or catch. But what can you DO about it? For starters, you need to figure out whether (a) the requirements were not defined clearly from the beginning or (b) the Customers keep changing their minds.

In the first case, you need to hit the brakes hard, and then redirect all resources at your command to re-define the requirements. Go back to the Customers, and re-confirm or figure out what it is they REALLY want. Since the original requirements gathering process obviously did not work, first you need to analyze the way you went about gathering, defining and documenting the requirements, and try to improve it this time around.

In the second case, you need to have a chat with your Project Sponsor. Explain that by not sticking to their agreement (you do have their signature accepting the requirements, right?) the Customers are jeopardizing the project in all its parameters (Cost, Scope, Schedule and Quality), and, as a result, the Project Sponsor has essentially three options: (1) stop the requirements dithering, (2) expand the Project Budget and Schedule to accommodate the process (warning: you will still need option 1 eventually!) or (3) cancel the project now (with small overruns) or later (with major overruns).

In either case, change control is key. As soon as you detect an increase in scope, even if you still don't know the full extent of it, you need to start the change control process. Remember that change control is not a bad thing; it's just a process to manage enhancements as well as risks and mistakes. Changes are often unavoidable, as in the case of legislative initiatives or technological advances, and change control serves as a mechanism to assure everyone is aware of and agrees to all deviations from the plan.

**Problem:** Project Team members don't produce.

Solution: First, check to make sure that the fault is not with the environment and/or management. It most probably is. But it just may be possible that your folks do not have the right skills, knowledge or tools to get the job done. Of course, that should be no surprise to you, and you should have had your team training plan going full swing, right? Well, nobody's perfect. The important thing to do is to separate what you can fix from what you can't. For example, if the folks do not have the right tools to do the job – that can be fixed, even if you have to go to the ends of the Earth to get them. Likewise, if the team members do not have the right knowledge - well, that can be fixed too, although by now it may be too late. But if you find that you are stuck with a turkey who just can't do the job, you have a bigger problem. The first thing to do is to try a variety of managerial approaches with the person. Everyone is different, and some people react to certain management styles better than others. But if after deploying your whole managerial repertoire the person still comes up short, the best thing to do is to consult with your manager, or another "seasoned" Project Manager, and understand how such situations have been handled in your organization in the past.

**Problem:** The project environment is not what you expected.

**Solution:** This problem can take one of two flavors. One, the Performing Organization may not be ready for your project, and is not providing you with the support infrastructure you require. Two, the technology you are trying to utilize is wrong, immature, or not properly implemented.

For the first eventuality, sound the alarms! This is when you need that Organizational Change Management Plan, and your Implementation and Transition Plan. You will need to have another one of those chats with your Project Sponsor. Explain how the team is doing all it can to deliver the product, but the support structure is failing you all around. Make

specific suggestions as to what you need, and how it could be accomplished.

For the second eventuality, you must make a quick decision whether the technology can be fixed, or needs to be replaced. Some technological advances sound great in concept, but are just not ready for prime time. Try to avoid "bleeding edge" technologies altogether, but if you do get entangled in one, be ruthless — going back and retracing your steps using an older, less sexy but more stable technology may pay off in productivity gains for the rest of the project, compared with slugging through the immature mire of somebody's half-baked product.

#### PITFALL #2 - YOU DROP THE ISSUE BALL

In the course of the project, many issues come up. By definition, issues have a potentially adverse impact on the project's CSSQ. Most of them are solved internally, within the Project Team, but some require actions or decisions on the part of other players with whom you may have little influence.

The important fact to remember is that project issues are the Project Manager's responsibility. No matter how clear you are in communicating the issue, no matter how little say you have in its resolution – it remains your responsibility. Identifying another person as a party who can resolve the issue does not abdicate your responsibility to follow it through. Even obtaining consensus that another agency unit should, or a promise that they would, resolve it does not remove your obligation to track the issue to a successful conclusion.

One of the most natural pitfalls is to assume that once you have successfully convinced everyone that someone else has to solve the issue, you are done. On the contrary! Because it is now out of your control, you must be all the more dogged in the pursuit of its resolution. Tell the responsible parties that you're not going away. Keep asking them what you can do to help get the issue resolved, but keep tracking their progress – or lack thereof – on your status reports. Use all the tools in the project Communications Plan to continuously shine light on the issue.

### PITFALL #3 - YOU FALL INTO THE PROJECT BLACK BOX

**Scene 1** – You employ the latest facilitation techniques to extract all possible requirements from your Customers, even requirements they did not know they had.

**Scene 2** – Your team performs wonders to design the perfect product, exactly as the Customers requested, and works like the dickens to develop it exactly as envisioned.

**Scene 3** – You beam with pride as you deliver your masterpiece to an eager Customer.

**Scene 4** – You slink away in shame as the Customer continues to rant and rave about all the features that the product does not have even though they told you about them all along.

What happened? You "black-boxed" your project. The Customers saw you when you were gathering the requirements. Then you and your team went away into the project black box, and only came out in time to show the Customer the finished product. The problem is, things changed in the interim! The Customer cast of characters may have changed. The business conditions may have changed. The expectations may have changed. And you did not keep in synch. Worse, you did not keep your Customers in synch with your project. You just assumed that because you are giving your Customers exactly what they originally asked for, they would like it. But you know what happens when you assume.

The simple remedy for the black box phenomenon is keeping the Customers involved every step of the way. You should constantly show select Customers project deliverables as they are being developed. Not so they can change their minds but so they know what to expect on delivery. You certainly want to minimize the number of decision-makers who will accept and sign off on your deliverables (chasing signatures of more than a couple of people is a pain) but you want to maximize the number of people who review, or even preview your stuff.

# PITFALL #4 - YOU REMAIN INCOMMUNICADO

Once the project really gets going in Project Execution, it is very easy to focus internally — on Project Team dynamics, on technical challenges, on deliverables and schedules — to the exclusion of everything else; yet it is also important to pay attention to the externals. After all, as Project Manager, you are the main link between the project cocoon and the big world outside.

Executing all aspects of your Communications Plan is your responsibility, and nothing is more important than accurate and frequent status reporting. A Project Status Report is the most effective way for all Stakeholders to remain closely connected to and aware of the project's progress – and potential problems.

The two most important questions the Project Status Report must answer are:

- **1.** What is the latest, best available estimate for the remaining work, and how does it compare with the schedule?
- 2. What issues have come up that may affect the project Cost, Scope, Schedule, or Quality, and what is being done about them?

These questions are far more important to the eventual success of the project, and to minimizing surprises along the way, than the usual dissertations on project status and enumerations of immediate tasks at various levels – not that the status report should not include them. But after collecting, analyzing and evaluating the status information, the Project Manager's job is to make decisions or suggestions regarding changes to be made – if necessary – to keep the project on track.

Of course, the best status report in the world will make no impact if there is no one there to hear it. A regularly scheduled status meeting, attended by as many members of the Project Team as practical, dedicated to a thorough review of the status report, is irreplaceable.

# PITFALL #5 - YOU CONFUSE DESIRE WITH ABILITY

Your customers sincerely want what your project is developing. They demonstrated their desire for it by committing funds to the project; by allocating resources to the Project Team; and by devoting time to meetings, reviews, and other project-related activities. And yet they may be totally unprepared to actually make use of it, or even to implement it at all.

But whose fault do you think it will be when they realize their inability to utilize it? That's right, yours. So it is up to you to make sure that someone determines organizational readiness for the product or service, and that someone prepares for a smooth transition of the product from the Project Team to the Performing Organization. Notice that it does not say you have to do it – just that you have to make sure it gets done. And that requires including in the Project Plan that organizational readiness assessment and transition planning need to be done.

# PITFALL #6 – THEY BLINDED YOU WITH SCIENCE (OR TECHNOLOGY)

There is no law that says that a Project Manager must be a master of whatever technology the project employs. Nevertheless, you will be called upon to manage numerous technical decisions on the project.

A frequent pitfall in those circumstances is over-delegating those decisions to the more technical members of the team, or accepting the recommendations of your technical experts on blind faith, both of which result in unacceptable loss of control. Instead, make the team explain the issue and alternative solutions to you. As a reasonably intelligent person, you should be able to understand the concepts by listening and asking questions. If, however, the technical folks can't explain to your satisfaction why they are advocating a certain position – watch out! It is indicative of a position dictated more by desire than by reason, or of poor understanding on the part of the supposed experts. Get a second opinion, and trust your own instincts.

# PITFALL #7 - THE ENDLESS APPROVAL CYCLE LEADS YOU BY THE NOSE

You thought you were smart. You thought you were ready. You knew how finicky your Customer was, so you built into your schedule not one, not two, but three approval cycles – one for an informal pre-screen, one for a formal review, and the last one for formal approval. You built in time for re-work based on the review. You even indicated in your acceptance parameters that you were only willing to wait so many days for the approval. Yet here you are, a month and a half past the first scheduled deliverable - which your team presented right on time - and you still don't have the proper signatures on the approval form. What happened? Any of a number of things. You may be stuck in a neverending fine-tuning cycle (that's like hanging a picture for your mother-inlaw: "A little more to the left. No, that's too far! Back a bit to the right. Hmm... How about a little higher? No, that's too high!" etc., etc.) Or you may be chasing signatures in a circle, with every person telling you that he can't sign until the other person does (that's like trying to solve a problem with your PC: "Install an updated driver before we swap the modem" - "No, flash the chip set before we upgrade the driver" - "No, update the operating system first!" - "Looks like you need to replace the motherboard.") Or the exalted Grand Poobah of the Customer tribe may just be too busy to pay any attention to your puny little project.

But the common thread among all the possibilities is that you are just being too darned nice. You may have said that you would only allow five business days for deliverable approval, but what do you do after the five days expire? You may have asked for particular signatures on the approval form, but what do you do if the signatures do not appear?

You fight the approval war on two levels: tactical, and operational. Tactically, you should use two weapons: status report and change control. Highlight the acceptance cycle in your Status Report, and start

# **Chapter 4** – Project Execution and Control ND Project Management Guidebook

the change control process when your criteria are not met. Be tough, and insist on the rules being followed. And finally, from the operational perspective, you should just make such a nuisance of yourself that the approvers would sign anything rather than be pestered by you again.

# **Frequently Asked Questions**

# How can a Project Manager manage the Project Schedule if team members don't accurately report when they are behind?

The key to accurate forecasting and precise reporting is the "Estimate to Complete" column on the Progress Report. The team members don't have to report that they are behind; you (and most likely, your team leaders) need to make sure that they come up with an accurate estimate to complete, and the math will tell you the rest. How do you know if their estimate is accurate? Unless you (or your team leader) are involved in the details of the task, and understand the technology used to perform it, you won't – the first time.

By next time, you will know the team member's bias – unbridled optimism (forecasting too little), gloomy pessimism (forecasting way too much) or random don't-have-a-clueism (forecasting erratically), so you can "guide" them to a better estimate and then hold them accountable for it.

The thing to remember is, you can't just take what you're given. You have to question the estimate to complete, you have to compare it with other tasks, and you have to get it to the point where all of you are comfortable with it.

When I submit a deliverable for review and acceptance, I sometimes receive comments after the established deadline. In other cases, reviewers are identifying issues that should have been identified and resolved during prior reviews. What can I do to ensure that reviewers complete the process timely and thoroughly?

What we are talking about is managing the acceptance of deliverables. Typically, an acceptance management process is developed during the planning phase and documents:

- The definition of "acceptance".
- The criteria that must be met for each deliverable to be considered "acceptable".
- The number and identity of Customers designated to be reviewers of each deliverable – typically reviewers are experts in the subject matter the deliverable covers.
- The number and identity of Customers designated to be approvers

   approvers have the authority to sign the approval form, indicating acceptance.
- The number of business days in which deliverables must be either approved or rejected by the reviewers and approvers.
- The number of times a deliverable can be resubmitted.
- The escalation process that will be followed if a timely decision on approval or rejection of a deliverable is not met.

Having a process that includes this information is a great start, but what if the criteria are in place, but not being followed by the reviewers? If, in the

# **Chapter 4** – Project Execution and Control

ND Project Management Guidebook

planning phase, you suspect problems will occur, there are additional measures available.

You may choose to be very specific when authoring the escalation process by including wording such as, "If the review is not completed per the schedule, approval will be assumed."

To ensure the reviewer takes ownership of their responsibility, consider setting the expectation that with each new iteration of the deliverable, the reviewer is only allowed to comment on the modifications made since the last review. This is a strong stance, and should be reserved for those times when it is truly necessary. This expectation must be set with the reviewer upfront – prior to the first review of the deliverable.

In addition, the failure to follow the process could be a risk to scope, schedule, quality and/or budget. Consider identifying the failure to comply with the acceptance management process in the Risk Management Plan. Individuals seldom want to be identified as a contributor to "risk" as risks are typically reported to the Executive Steering Committee.

It is important to remember that there may be outside influences that are impacting the reviewer. For instance, the reviewers may not be completing their tasks because of other workload. You may be able to work with the reviewer's supervisor to reschedule other work. Basically, you cannot rely solely on the written plans. You must manage the plan and work with the reviewers to ensure success. Staying on top of the process will allow you to avoid surprises and give you the opportunity to rectify issues before they grow into problems.